

In the claims:

Cancel all claims without prejudice.

Add the following claims:

17. A device for sensing seismic and/or acoustic vibrations, comprising a body of a particulate material composed of a plurality of individual particles; and means for determining changes in electrical conductivity of the particulate material caused by seismic and acoustic vibrations, wherein said particles are treated with an electrically conductive substance.

18. A device as defined in claim 17, wherein said particles are not electrically conductive and are treated with said electrically conductive substance.

19. A device as defined in claim 17, wherein said particles are electrically conductive and are additionally treated with an electrically conductive substance to enhance their electrically conductive properties.

20. A device as defined in claim 17, wherein said electrically conductive substance is a substance selected from the group consisting of fullerene and nanotubes.

21. A device as defined in claim 17; and further comprising a casing which encloses said body of particulate material.

22. A device as defined in claim 21, wherein said casing is composed of a flexible material.

23. A device as defined in claim 17; and further comprising means for determining changes in electrical conductivity of the particulate material caused by seismic and acoustic vibrations, said means including at least two electrodes arranged in contact with said body of said particulate material and spaced from one another; and means for determining voltage changes between the electrodes, said electrodes having a height substantially corresponding to a height of said body of said particulate material and a width substantially corresponding to a width of said body of said particulate material.

24. A device as defined in claim 23, wherein each of said electrodes is composed of a plurality of electrode parts electrically connected with one another, said means further including a voltage source, an amplifier, an analog-digital convertor and a microcontroller.